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PDerwent Title:

Tilt mechanism for chair, has reaction force mechanism which changes direction which compresses coil spring with respect to tangent direction when back reclining arm leans backward to rotate back reclining arm

Poriginal Title:

É JP2003225136A2: CHAIR

PAssignee:

KUNIHON CO LTD Non-standard company

KOKUYO KK Standard company

Other publications from KOKUYO KK (KOKV)...

PInventor:

None

PAccession/

2003-612195 / 200374

Update:

PIPC Code:

A47C 1/00; A47C 7/34; A47C 1/024; A47C 1/032;

A47C 7/40;

PDerwent Classes:

P26;

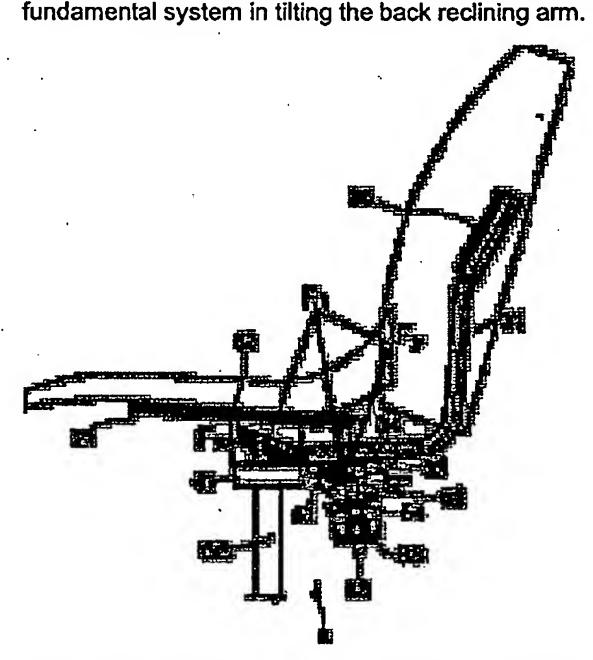
PDerwent Abstract:

(JP2003225136A2) Novelty - A reaction force mechanism (5) changes the direction which compresses a coil spring (SP) with respect to the tangent direction, when a back reclining arm (31) leans backward, to rotate the back reclining arm. A base member (21) is attached to the upper portion of a leg. The coil spring is arranged between a spring power transmission member (53).

Advantage - Improves freedom in designing comfortable chair without changing

Use - For chair.

Fimages:



Description of Drawing(s) - The figure shows the side view of a chair. Reaction force mechanism 5, Base member 21, Back reclining arm 31, Spring power transmission member 53, Coil spring SP <u>Dwg.4/7</u>

PFamily:

Derwent

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PDF Patent Pub. Date Update 🐪 Pages Language IPC Code **JP2003225136A2** * 2003-08-12 200358 English A47C 7/34 Local appls.: CN1436501A = 2003-08-20 English 200374 A47C 1/00 Local appls.: CN2002000128896 Filed:2002-08-20 (2002CN-0128896)

VINPADOC

None

Legal Status: Priority Number:

Application Number Filed Original Title
JP2002000028547 2002-02-05 CHAIR

[®]Title Terms:

TILT MECHANISM CHAIR REACT FORCE MECHANISM CHANGE DIRECTION COMPRESS COIL SPRING RESPECT TANGENT DIRECTION BACK RECLINING ARM LEAN BACKWARD ROTATING BACK RECLINING ARM

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Title: JP2003225136A2: CHAIR

P Derwent Title: Tilt mechanism for chair, has reaction force mechanism which changes

direction which compresses coil spring with respect to tangent direction when back reclining arm leans backward to rotate back reclining arm

[Derwent Record]

GraphJPJapan

PKind: A2 Document Laid open to Public inspection i

VIII MURAKAMI TOMOKAZU; NISHIMURA KAYOKO;

PAssignee: KOKUYO CO LTD

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VPublished / Filed: 2003-08-12 / 2002-02-05

₹Application **JP2002000028547**

Number:

 IPC Code:
 A47C 7/34; A47C 1/032;

Priority Number: 2002-02-05 JP2002000028547

PROBLEM TO BE SOLVED: To solve the problem in a chair having a conventional tilt mechanism that a large force is required

to largely tilt a backrest backward, namely the backrest can be largely tilted backward only by not only applying the body weight but also using the muscles, or a petite person or light women cannot

take a satisfactorily backward tilted stance.

SOLUTION: In this chair having a structure for compressing a coil spring in the backward titling of a backrest arm, the direction of compressing the coil spring is gradually changed relatively to the tangential direction of the rotation of the part receiving the action of the spring force on the backrest arm according to the backward tilting of the backrest arm. According to such a structure, since the coil spring is compressed to increase the total reaction of the coil spring according to the backward tilting of the backrest arm, while the direction of the total reaction of the coil spring is gradually shifted to the rotating direction of the backrest arm, the degree of compression of the coil spring and the shifting manner in the backward tilting of the backrest arm are set, whereby the magnitude of the effective component of the reaction of returning the backrest arm to a raised attitude of the coil spring can be properly controlled.

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None

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POther Abstract

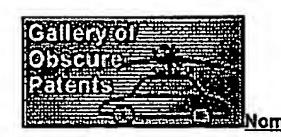
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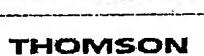












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